

ABSTRACT OF THE DISCLOSURE

A waveguide antenna apparatus is provided including a rectangular waveguide having one end short-circuited by a terminating conductor and another end opened. The rectangular waveguide includes

5. a grounding conductor and a ceiling conductor opposed to each other, and includes two side surface conductors joining the grounding conductor with the ceiling conductor and being opposed to each other. An antenna element has one end and another end, where one end thereof is connected with a position in the ceiling conductor in a vicinity of opened another end

10. of the rectangular waveguide, and another end thereof is connected with a feeding portion located in the grounding conductor. The ceiling conductor includes a removed portion on the side of opened another end of the rectangular waveguide. Then an electromagnetic wave of a fed radio signal is radiated from the removed portion and opened another end

15. of the rectangular waveguide.